| Index of Claims |                     |          |               |           |          |          |             |          |          |          |                |              |          |          |                   |                   |              |              |          |            |            | Reexamination |            |                 |              |          |             |                    |                   |                 |           |  |
|-----------------|---------------------|----------|---------------|-----------|----------|----------|-------------|----------|----------|----------|----------------|--------------|----------|----------|-------------------|-------------------|--------------|--------------|----------|------------|------------|---------------|------------|-----------------|--------------|----------|-------------|--------------------|-------------------|-----------------|-----------|--|
|                 |                     |          |               |           |          |          |             |          |          |          |                |              |          |          | 10/603,861        |                   |              |              |          |            |            |               |            |                 | ISHII ET AL. |          |             |                    |                   |                 |           |  |
|                 |                     |          |               |           |          |          |             |          |          |          |                |              |          |          | ┢                 | Examiner          |              |              |          |            |            |               |            |                 | Art Unit     |          |             |                    |                   |                 |           |  |
|                 |                     |          |               |           |          |          |             |          |          |          |                |              |          |          |                   | Overe M. Croisses |              |              |          |            |            |               |            |                 |              |          |             |                    |                   |                 |           |  |
|                 | <u> </u>            |          |               |           |          |          |             |          |          |          |                |              |          |          | Quana M. Grainger |                   |              |              |          |            |            |               | }          | 2852            |              |          |             |                    |                   |                 |           |  |
|                 |                     |          |               |           |          |          |             |          |          |          |                |              |          |          |                   | 7                 | Γ            | _            |          |            |            | 1             | Г          |                 |              |          | <del></del> |                    | 1                 |                 |           |  |
|                 | √ Rejected    -  (1 |          |               |           |          |          |             |          |          | (1       | Through numera |              |          |          | 31)               | N                 | N            | lon-         | Elec     | lected     |            | A             | Appeal     |                 |              |          |             |                    |                   |                 |           |  |
|                 |                     | H        |               |           |          |          |             |          | $\dashv$ |          |                | Caricened    |          |          |                   | F                 | -            |              |          |            |            | H             |            |                 |              |          |             |                    |                   |                 |           |  |
|                 |                     |          | =             | A         | Allowed  |          |             |          |          | ÷        |                | Restricted   |          |          | i                 |                   |              | 1            | lr       | Interferen |            |               |            |                 |              |          |             | 0                  |                   |                 |           |  |
|                 |                     |          |               |           |          |          |             |          | I        |          |                | <del> </del> |          |          |                   |                   | ل            | L            |          |            |            |               | l          | Ш               |              |          |             |                    |                   |                 |           |  |
| ſ               | Claim               |          |               | Date      |          |          | <del></del> |          |          | ٦        | Claim          |              |          |          |                   | Dat               | e            |              |          |            | Cla        | aim           | Γ.         | Date            |              |          |             |                    |                   |                 |           |  |
|                 |                     |          | 5             |           |          |          |             |          |          |          | 7              |              |          |          |                   |                   |              |              |          |            |            |               |            |                 | T            |          | T           |                    |                   |                 |           |  |
|                 | Final               | Original | 5/30/05       |           |          |          |             |          |          |          | ŀ              | Final        | Original |          |                   |                   |              |              |          |            |            | Final         | Original   |                 |              |          |             |                    |                   |                 |           |  |
|                 | ш                   | ō        | 5/:           |           |          |          |             |          |          |          |                | ۳ ا          | ŏ        |          |                   |                   |              |              |          |            |            | "             | ō          |                 | -            |          |             |                    | 1                 | li              |           |  |
|                 |                     | 1        | <u> </u>      |           |          |          |             |          |          |          | ]              |              | 51       |          |                   |                   |              |              |          |            |            |               | 101        |                 |              | 士        | 土           | 工                  |                   |                 | $\Box$    |  |
|                 |                     | 2        | 1             | $\sqcup$  | 4        | _        |             |          |          | 4        | 4              | <u> </u>     | 52       |          | _                 | _                 | _            | ╄-           |          |            | 4          | <u> </u>      | 102        | Ш               | 4            | _        | $\bot$      | 4                  |                   | -               | _         |  |
| F               |                     | 3        | 00            | $\vdash$  | -        |          |             | -        | _        | $\vdash$ | $\dashv$       |              | 53<br>54 |          | -+                | +-                | ╁            | ╁            |          | $\dashv$   | -  -       | <u> </u>      | 103<br>104 |                 | +            | +        | +           | +-                 | -                 | $\vdash$        | $\dashv$  |  |
| -               |                     | 5        | ō             | $\exists$ | $\dashv$ |          | $\exists$   |          |          | $\dashv$ | 1              |              | 55       |          | 十                 | $\top$            | ╁            | T            | П        | $\forall$  | 1          | $\vdash$      | 105        | $\vdash$        | $\dashv$     | 十        | 十           | $\dagger$          |                   |                 | $\dashv$  |  |
|                 |                     | 6        | 0             |           | $\Box$   |          |             |          |          | $\Box$   |                |              | 56       |          | $\Box$            | $\perp$           |              |              |          |            |            |               | 106        |                 | $\Box$       | $\bot$   | $\perp$     | $oldsymbol{\perp}$ |                   |                 | $\Box$    |  |
| -               |                     | 7 8      | 7             | 1         | $\dashv$ |          |             |          |          | +        |                |              | 57<br>58 | -        |                   | +                 | ╀            | ╁            |          |            |            | -             | 107<br>108 | $\vdash\vdash$  | 4            | +        | +           | +                  | $\vdash$          | Н               | Н         |  |
| F               |                     | 9        | 77            | $\dashv$  | $\dashv$ | $\dashv$ |             |          |          |          | - ' '          | -            | 59       |          | $\dashv$          | +                 | ╁            | ╁╴           |          | $\vdash$   | $\dashv$   | <u> </u>      | 109        | Н               | +            | +        | +           | +                  | Н                 | Н               | $\dashv$  |  |
|                 |                     | 10       | O             |           |          |          |             |          |          |          | ]              |              | 60       |          | コ<br>コ            |                   | I            |              |          |            |            |               | 110        |                 |              | 丄        |             |                    |                   |                 |           |  |
| -               |                     | 11       | 0             |           | _        | _        |             |          |          | _        | 4              |              | 61       | $\Box$   | $\perp$           |                   |              |              |          |            | 4          |               | 111        |                 | _            | _        | _           | 4_                 | $\sqcup$          |                 | $\dashv$  |  |
| -               |                     | 12<br>13 | 0 6           | $\dashv$  | $\dashv$ | $\dashv$ |             | -        | _        | -        | -              | -            | 62<br>63 | _        | $\dashv$          | +                 | ╁            | <del> </del> |          | $\dashv$   | _          |               | 112<br>113 | Н               | +            | +        | - -         |                    | ╁┤                | $\vdash$        | $\dashv$  |  |
|                 |                     | 14       | 0             |           | 7        | $\dashv$ |             |          |          | $\dashv$ | 1              | <b></b>      | 64       |          | $\dashv$          | +                 | $\dagger$    |              | H        |            | - 3        |               | 114        | Н               | $\dagger$    | $\top$   | +           | +                  | $\dagger \dagger$ | $\vdash$        | $\dashv$  |  |
|                 |                     | 15       | Z             |           |          |          |             |          |          | 1        |                |              | 65       |          |                   |                   |              |              |          |            |            |               | 115        |                 |              | ╧        |             |                    | П                 |                 |           |  |
| -               |                     | 16<br>17 | =             | $\dashv$  | $\dashv$ | $\dashv$ |             | -        |          | $\dashv$ | ٠ ا            |              | 66<br>67 |          |                   |                   | ╄            | ╄            |          | $\vdash$   | 4          | ļ             | 116<br>117 | H               | +            |          | -           | +-                 | $\vdash$          | Н               |           |  |
| -               |                     | 18       | H             | $\dashv$  | -        | $\neg$   |             |          |          | $\perp$  | $\exists$      |              | 68       |          | +                 | +                 | +            | ╁            | H        | $\dashv$   | -          | ļ             | 118        | $\vdash$        | +            | +        | +           | +                  | Н                 | $\vdash$        | $\dashv$  |  |
|                 |                     | 19       |               |           | $\Box$   |          |             |          |          |          |                |              | 69       |          |                   |                   |              |              |          |            |            |               | 119        |                 |              | 丁        |             |                    |                   |                 |           |  |
| -               |                     | 20       |               |           | 4        | $\dashv$ |             |          | _        | _        | 4.             | <u> </u>     | 70       |          | +                 | 4                 | ╁            | ├            | <u> </u> |            | _          | -             | 120        | Ш               | 4            | 4        | _           | ╁                  |                   | $\square$       | _         |  |
| }               |                     | 21<br>22 |               | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$    | $\dashv$ |          | +        | $\exists$      | $\vdash$     | 71<br>72 |          | $\dashv$          | +                 | +            | ╁╌           | -        | -+         | ╡ '        |               | 121<br>122 | $\vdash$        | $\dashv$     | +        | +           | +                  | +                 | $\vdash$        | -         |  |
|                 |                     | 23       |               |           |          |          |             |          |          |          | ₫.             |              | 73       |          |                   |                   |              |              |          |            | <u> </u>   |               | 123        |                 | 1            | $\top$   |             |                    |                   |                 |           |  |
| -               |                     | 24       |               | -         | _        | _        |             | 4        |          | $\Box$   | 4              |              | 74       |          | _                 |                   | ↓.           | $\vdash$     | Ш        | $\dashv$   | _          |               | 124        | Ш               | _            | _        | $\perp$     | 4_                 |                   |                 |           |  |
| }               |                     | 25<br>26 |               | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$    | $\dashv$ | $\dashv$ |          | -              |              | 75<br>76 | -        | +                 | +                 | ╁            | ╁            | Н        | -          |            | <u> </u>      | 125<br>126 | $\vdash$        | $\dashv$     | +        | +           | ╁                  | $\vdash$          | Н               | $\vdash$  |  |
| ŀ               |                     | 27       | Н             |           | 7        |          |             | $\dashv$ | $\dashv$ | $\top$   | 1              | $\vdash$     | 77       |          |                   | 十                 | ╁            | <del> </del> |          |            | ┪          |               | 127        | H               | $\dashv$     | $\dashv$ | +           | +                  | $\vdash$          | H               | $\dashv$  |  |
|                 |                     | 28       |               |           | _        |          |             |          |          |          | ]              |              | 78       |          | $\Box$            |                   |              |              |          |            |            |               | 128        |                 | $\Box$       | 1        |             | I                  |                   |                 |           |  |
| -               |                     | 29<br>30 | Н             | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$    |          | $\dashv$ | +        | 4.5            | <u> </u>     | 79<br>80 | $\dashv$ | +                 | +                 | +-           | ╀            | Н        | $\vdash$   | $\dashv$   |               | 129<br>130 | $\vdash \vdash$ | +            | +        | +           | +                  | $\vdash$          | $\vdash \mid$   | $\dashv$  |  |
| -               | _                   | 31       | H             | $\dashv$  | $\dashv$ | $\dashv$ | $\vdash$    | ᅥ        | ᅥ        | +        | $\exists$      | -            | 81       | $\dashv$ | $\neg +$          | +                 | +            | $\vdash$     | H        | $\dashv$   | $\dashv$ : | _             | 131        |                 | +            | +        | +           | +                  | $\vdash$          | H               | $\dashv$  |  |
|                 |                     | 32       |               |           |          |          |             |          | $\Box$   |          | ] .            |              | 82       |          |                   |                   |              |              |          |            |            |               | 132        |                 |              |          |             |                    |                   |                 |           |  |
| -               |                     | 33<br>34 | Н             | 4         | $\dashv$ |          | _           | _        | 4        |          | 1 ,            |              | 83<br>84 | $\sqcup$ | $\perp$           | +                 | $\perp$      | <u> </u>     | Щ        | $\dashv$   | 4          |               | 133        | $\prod$         | 4            | $\perp$  | $\perp$     | +                  | $\Box$            | Ц               | _]        |  |
| -               | -                   | 35       | Н             | -         | $\dashv$ | $\dashv$ | $\dashv$    | ᅱ        | $\dashv$ | +        | +              |              | 85       |          | +                 | +                 | +            | +            | Н        | -          | $\dashv$   | <u> </u>      | 134<br>135 | $\vdash \vdash$ | $\dashv$     | +        | +           | +                  | +                 | H               | $\dashv$  |  |
| į               |                     | 36       |               |           |          |          |             |          |          |          | 1              |              | 86       |          | 士                 | 士                 | L            |              |          |            | ╛.         |               | 136        |                 | _†           | $\perp$  | +           | 1                  |                   | H               | $\exists$ |  |
|                 |                     | 37       |               |           |          |          |             | $\Box$   |          | $\Box$   |                |              | 87       |          | $\Box$            |                   | $oxed{\Box}$ | oxdot        |          | $\Box$     | $\Box$     |               | 137        | П               |              |          |             | I                  |                   |                 |           |  |
| -               |                     | 38<br>39 | $\vdash$      | -         | $\dashv$ | -        |             | _        | $\dashv$ | +        | $\dashv$       | <u> </u>     | 88<br>89 | $\dashv$ | +                 | +                 | +            | ╀            | Н        | $\vdash$   | $\dashv$   | ļ             | 138<br>139 | $\vdash \vdash$ | $\dashv$     | +        | +           | +                  | +                 | $\vdash \vdash$ | ᅴ         |  |
|                 |                     | 40       |               |           | $\dashv$ | $\dashv$ | $\dashv$    | _        | $\dashv$ | +        | $\dashv$       |              | 90       | $\dashv$ | +                 | +                 | ╁            | +            | H        | +          | $\dashv$   |               | 140        | $\vdash$        | $\dashv$     | +        | +-          | +                  | $\forall$         | $\vdash$        | $\dashv$  |  |
|                 |                     | 41       |               | $\Box$    |          |          |             |          |          |          |                |              | 91       |          | ユ                 | 丰                 |              |              |          |            |            |               | 141        |                 |              | $\perp$  | Ţ           |                    | П                 |                 | $\Box$    |  |
|                 |                     | 42<br>43 | Н             | $\dashv$  | $\dashv$ |          | $\dashv$    | -        | -        | $\dashv$ | 4              | <u> </u>     | 92<br>93 |          | +                 | +                 | +            | $\vdash$     | Н        |            | 4          |               | 142<br>143 |                 | $\perp$      | +        | +           | 1                  | $\sqcup$          | $\sqcup$        | 4         |  |
| <u> </u>        |                     | 44       | $\vdash$      | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$    | $\dashv$ | $\dashv$ | +        | -              |              | 93       | $\dashv$ | +                 | +                 | ╁            |              | $\vdash$ | -          | $\dashv$   |               | 144        | $\vdash$        | +            | $\dashv$ | +           | +                  | ++                | $\vdash$        | $\dashv$  |  |
| Ĺ               |                     | 45       |               |           |          | ╛        |             |          | 士        |          | ]              |              | 95       |          | 士                 |                   |              |              |          |            | _          |               | 145        |                 | $\exists$    | $\perp$  | 士           | 1                  |                   |                 |           |  |
| -               |                     | 46       | $\square$     | $\Box$    | $\neg$   | _]       | $\dashv$    | $\dashv$ | _]       | Д.       | 4              |              | 96       | J        | Ţ                 |                   | F            | Ĺ            | П        | $\neg$     | _          |               | 146        | $\square$       | $\bot$       | $\perp$  | Ţ           | T                  | П                 | П               | $\Box$    |  |
| -               |                     | 47<br>48 | ${\mathbb H}$ | $\dashv$  | -        | $\dashv$ | +           | -        | $\dashv$ | +        | +              | <u> </u>     | 97<br>98 | $\dashv$ | +                 | +                 | $\vdash$     | $\vdash$     | $\vdash$ | -+         | $\dashv$   | <u> </u>      | 147<br>148 | $\vdash$        | $\dashv$     | +        | ╁           | +                  | $\vdash$          | $\vdash \vdash$ | ᅱ         |  |
| t               |                     | 49       |               | _†        |          | _        | _           |          |          |          | _              |              | 99       | _        | _+                | $\top$            | T            | $\vdash$     | -        | $\dashv$   | $\dashv$   | $\vdash$      | 149        |                 | $\dashv$     | +        | +           | +                  | H                 | $\vdash \vdash$ | ㅓ         |  |
|                 |                     | 50       |               |           |          |          |             |          | $\Box$   |          | ]              |              | 100      |          | 丁                 | $oxed{oxed}$      |              |              |          | 丁          | J .        |               | 150        |                 | 士            | I        |             | T                  |                   |                 | $\neg$    |  |

Application/Control No.

Applicant(s)/Patent under